

61-18592

I. Biryukov, N. D.

Biryukov, N. D.
RELATIONSHIP OF THE NORMAL POTENTIALS
OF METALS WITH THE DIMENSIONS OF ATOMS
AND OF METALLIC OXIDE MOLECULES. [1961]

15p. 5 refs.

Order from OTS or SLA \$1.60

61-18592

Trans. of *Zhur[na] Neorganicheskoi Khimii (USSR)
1959, v. 4, [no. 12] p. 2670-2681.

DESCRIPTORS: *Metals, Potential theory, *Hydrogen,
*Atoms, Metallic compounds, *Oxides, Molecules,
Reduction, Molecular structure.

Normal potentials of metals in the series of tension
were calculated ($E_{calc.}$), as function of reduction
process by atomic hydrogen of the metallic oxides and
hydroxides. The deviations of empiric E_0 values from
 $E_{calc.}$ were calculated. It was found, that a curve,
(Chemistry--Inorganic, TT, v. 7, no. 3) (over)

Office of Technical Services

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(NY-4532)

Simple and Complex Carbonate Compounds of
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22 pp.

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JPRS 5192

Sci - Chem

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Possibility Diagrams in the Systems LaClO_4 - $\text{Ca}(\text{ClO}_4)_2$ and EuClO_4 - $\text{Ca}(\text{ClO}_4)_2$ by M. V. Krivtsov and A. A. Zinov'yev, 12 pp.

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and Aksenova, I. V.

THE SYNTHESIS OF SODIUM PEROXOCARBONATES.

[1963] 10p (figs tables omitted) 15refs

Order from OTS, SLA or ETC, \$1.10 TT-63-20473

Trans. of Zhurnal Neorganicheskoi Khimii (USSR)
1963, v. 8, no. 2, p. 278-284.

DESCRIPTORS: *Sodium compounds, *Percarbonates,
*Peroxides, Synthesis (Chemistry).

A method of obtaining peroxocarbonates of alkali metals
was developed, consisting in the action of carbon
dioxide gas on a mixture of concentrated solutions of
hydrogen peroxide and a hydroxide. The indicated
method, at different ratios of sodium hydroxide to
hydrogen peroxide produces sodium peroxocarbonate of
composition $\text{Na}_2\text{C}_2\text{O}_6 \cdot x\text{H}_2\text{O}$ and diperoxocarbonate
(Chemistry--Inorganic, TI, v. 11, no. 3) (over)

TT-63-20473

- I. Firsova, T. P.
- II. Molodkina, A. N.
- III. Morozova, T. G.
- IV. Aksenova, I. V.

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The ternary system: Lithium, Potassium, and
Sodium Chlorides, by A. G. Bergman,
M. V. Nisler.

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Effect of Concentration of Perchloric Acid on Its
Thermal Decomposition, by V. P. Z Babayeva, A. A.
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Aleksey Stepanovich Filonenko, 9 pp.
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The Vapor Pressure of Zirconium Tetrafluoride,
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A Study of the Kinetics of Thermal Decomposition
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~~■■■■■~~ O. D. Krichevskaya, N. A. Belozarskiy, et al,
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The Ternary System Cr-Ni-Si, by E. I. Gladyshevskiy,
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NLL(LOAN)Ref: 5828.4 1963 (5419)

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Pavel Trofimovich Danil'chenko, by P. S. Meleshko,
9 pp.
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No 11, 1963, pp 2417-2421.
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Interaction in the System BaO - BeO, by E. N. Isupova,
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Thermodynamics of the Chlorides of Tantalum,
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The Thermal Decomposition of Cobalt
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June 72

Interaction of Gallium Chloride With the Chlorides
of Lithium, Potassium, Ammonium, Cesium, and
Thallium. Part I, by P. I. Fedorov, V. V. Tsimbalist,
9 pp.

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pp 1676-1680. 9227069
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Sci-Chem
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The Interaction of Gallium Chloride with the
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P. G. Fedorov, V. V. Tsimbalist, et al, 5 pp.
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3 pp.
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NIH 3-6-65

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CLINICAL CHARACTERISTICS OF A NEW FORM OF
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DESCRIPTORS: Diseases, *Encephalitis viruses,
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- I. Grashchenkov, N. I.
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Experiment in Using a Method of Electrically
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